

| <b>L<br/>Number</b> | <b>Hits</b> | <b>Search Text</b>  | <b>DB</b>   | <b>Time stamp</b>   |
|---------------------|-------------|---|---|---------------------|
| -                   | 1           | (gate adj line) and (gate n ar insulating<br>n ar lay r) and (data adj lin ) and<br>passivati n and ((etch or etching) adj h l )<br>and concave and convex and (seal or<br>sealing or sealed) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:48 |
| -                   | 5           | seal adj pattern adj line   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:50 |
| -                   | 18          | (seal or sealing or sealed).clm. and ((etch<br>or etching) adj hole).clm.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:51 |
| -                   | 6           | ((seal or sealing or sealed).clm. and ((etch<br>or etching) adj hole).clm.) and passivation   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:52 |
| -                   | 2           | ((seal or sealing or sealed).clm. and ((etch<br>or etching) adj hole).clm.) and passivation)<br>and passivation.clm.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:52 |
| -                   | 2           | ((etch or etching) adj hole) same ((seal or<br>sealing or sealed) near pattern)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:54 |
| -                   | 2           | ((etch or etching) near hole) same ((seal or<br>sealing or sealed) near pattern) same<br>passivation  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:54 |
| -                   | 2           | ((etch or etching) near hole) same ((seal or<br>sealing or sealed) near2 pattern) same<br>passivation   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:54 |
| -                   | 7           | ((etch or etching) near hole) same ((seal or<br>sealing or sealed)) same passivation  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:54 |
| -                   | 2           | ((etch or etching) near hole) same ((seal or<br>sealing or sealed)) same<br>passivation).ti,ab,clm.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:54 |

|   |     |   |   |                     |
|---|-----|---|---|---------------------|
| - | 7   | ((( tch r etching) n ar h le) same ((s al or sealing r s aled)) sam passivation)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:55 |
| - | 2   | (((etch or etching) near hole) same ((seal or sealing or sealed)) same passivation same (concave or convex or concavo-convex))                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:55 |
| - | 4   | (((etch or etching or etched)) same ((seal or sealing or sealed)) same passivation same (concave or convex or concavo-convex))                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:56 |
| - | 204 | (lcd or (liquid adj crystal)) and (etch or etching or etched) and (seal or sealing or sealed) and passivation and (convex or concave or concavo-convex) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/08/29<br>11:57 |

| <b>L<br/>Numb r</b> | <b>Hits</b> | <b>Search T xt</b>   | <b>DB</b>   | <b>Time stamp</b>   |
|---------------------|-------------|--|---|---------------------|
| -                   | 551         | (l d r (liquid adj rystal)). lm. and passivati n.clm.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:24 |
| -                   | 5           | (lcd or (liquid adj crystal)).clm. and passivation.clm. and ((etch or etching) adj hole).clm.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:25 |
| -                   | 6           | (lcd or (liquid adj crystal)).clm. and passivation.clm. and ((etch or etching) adj hole)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:25 |
| -                   | 34          | (lcd or (liquid adj crystal)).clm. and passivation.clm. and (seal or sealing or sealed).clm.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:26 |
| -                   | 26          | (lcd or (liquid adj crystal)).clm. and passivation.clm. and (seal or sealing or sealed).clm. and (etch or etching or etched)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:26 |
| -                   | 7           | (lcd or (liquid adj crystal)).clm. and passivation.clm. and (seal or sealing or sealed).clm. and (etch or etching or etched) and ((data or signal) adj line).clm.                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:27 |
| -                   | 7           | (lcd or (liquid adj crystal)).ti,ab,clm. and passivation.clm. and (seal or sealing or sealed).clm. and (etch or etching or etched) and ((data or signal) adj line).clm.                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:27 |
| -                   | 19          | (lcd or (liquid adj crystal)).ti,ab,clm. and passivation.clm. and (seal or sealing or sealed).clm. and (etch or etching or etched) and ((data or signal) adj line)                                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:29 |
| -                   | 10          | (lcd or (liquid adj crystal)).ti,ab,clm. and passivation.clm. and (seal or sealing or sealed).clm. and (etch or etching or etched) and ((data or signal) adj line) and gate.clm. and (gate adj line) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:28 |
| -                   | 13          | (lcd or (liquid adj crystal)).ti,ab,clm. and passivation.clm. and (seal r sealing r s aled).clm. and (etch or tching or etched) and ((data or signal) adj line) and gate.clm.                        | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:28 |

|   |    |  |   |                     |
|---|----|--|---|---------------------|
| - | 37 | (US-4766666-\$ r US-4771638-\$ r<br>US-6159762-\$ r US-6546804-\$ r<br>US-6452654-\$ r US-6330047-\$ or<br>US-6332569-\$ r US-6316294-\$ r<br>US-6195140-\$ or US-6274440-\$ or<br>US-6194128-\$ or US-6124145-\$ or<br>US-6156585-\$ or US-6137559-\$ or<br>US-6071819-\$ or US-6015976-\$ or<br>US-6080610-\$ or US-5851919-\$ or<br>US-5759870-\$ or US-5523564-\$ or<br>US-5493177-\$ or US-5485055-\$ or<br>US-5589082-\$ or US-5238435-\$ or<br>US-4521466-\$ or US-4665413-\$).did. or<br>(US-5004704-\$ or US-4674177-\$ or<br>US-3707640-\$ or US-4262399-\$ or<br>US-6005649-\$ or US-6602743-\$).did. or<br>(US-20020030769-\$).did. or<br>(GB-2315245-\$).did. or (US-20020030769-\$<br>or US-6194128-\$ or JP-10123539-\$).did.                                     | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT                  | 2003/09/20<br>13:33 |
| - | 12 | ((US-4766666-\$ or US-4771638-\$ or<br>US-6159762-\$ or US-6546804-\$ or<br>US-6452654-\$ or US-6330047-\$ or<br>US-6332569-\$ or US-6316294-\$ or<br>US-6195140-\$ or US-6274440-\$ or<br>US-6194128-\$ or US-6124145-\$ or<br>US-6156585-\$ or US-6137559-\$ or<br>US-6071819-\$ or US-6015976-\$ or<br>US-6080610-\$ or US-5851919-\$ or<br>US-5759870-\$ or US-5523564-\$ or<br>US-5493177-\$ or US-5485055-\$ or<br>US-5589082-\$ or US-5238435-\$ or<br>US-4521466-\$ or US-4665413-\$).did. or<br>(US-5004704-\$ or US-4674177-\$ or<br>US-3707640-\$ or US-4262399-\$ or<br>US-6005649-\$ or US-6602743-\$).did. or<br>(US-20020030769-\$).did. or<br>(GB-2315245-\$).did. or (US-20020030769-\$<br>or US-6194128-\$ or JP-10123539-\$).did.)<br>and (concave or convex) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:30 |
| - | 1  | ((gate near5 (insulating or dielectric)) same<br>((etch or etching) adj hole) same (concave<br>or convex))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:34 |
| - | 2  | ((insulating or dielectric)) same ((etch or<br>etching) adj hole) same (concave or<br>convex))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:34 |

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|---|------|---|---|---------------------|
| - | 19   | (((insulating r di lectric)) same (( tch r etching) adj h l ) same (gr ve r gr vy or c ncave or c nv x))  | U PAT;<br>U -PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:35 |
| - | 24   | (((insulating or dielectric)) same ((etch or etching) adj hole) same (groove or groovy or concave or convex or protruding or protrusion or protruded or protrude))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:36 |
| - | 2    | (((insulating or dielectric)) same ((etch or etching) adj hole) same (groove or groovy or concave or convex or protruding or protrusion or protruded or protrude)) and (lcd or (liquid adj crystal)).clm.       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:36 |
| - | 2    | (((insulating or dielectric)) same ((etch or etching) adj hole) same (groove or groovy or concave or convex or protruding or protrusion or protruded or protrude)) and (lcd or (liquid adj crystal)).ti,ab,clm. | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:36 |
| - | 1396 | (((insulating or dielectric)) same (groove or groovy or concave or convex or protruding or protrusion or protruded or protrude)) and (lcd or (liquid adj crystal)).ti,ab,clm.                                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:36 |
| - | 723  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex or protruding or protrusion or protruded or protrude)) and (lcd or (liquid adj crystal)).ti,ab,clm.                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:37 |
| - | 125  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex or protruding or protrusion or protruded or protrude)).clm. and (lcd or (liquid adj crystal)).ti,ab,clm.                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:37 |
| - | 122  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex or protruding or protrusion or protruded or protrude)).clm. and (lcd or (liquid adj crystal)).clm.                                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:37 |
| - | 68   | (((insulating or dielectric)) near10 (groove or groovy or concave or convex)).clm. and (lcd or (liquid adj crystal)).clm.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:37 |
| - | 15   | (((insulating or dielectric)) near10 (groove or groovy or concave or convex)).clm. and (lcd or (liquid adj crystal)).clm. and passivati n   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:38 |

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|---|----|--|---|---------------------|
| - | 13 | (((insulating or dielectric)) near10 (groove or groovy or concave or convex)).clm. and (lcd or (liquid adj crystal)).clm. and passivation and (etch or etching or etched))             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:38 |
| - | 1  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex)).clm. and (lcd or (liquid adj crystal)).clm. and passivation and (hole near (etch or etching or etched))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:38 |
| - | 9  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex)).clm. and (lcd or (liquid adj crystal)).clm. and passivation and (hole near5 (etch or etching or etched)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:40 |
| - | 68 | (((insulating or dielectric)) near10 (groove or groovy or concave or convex)).clm. and (lcd or (liquid adj crystal)).clm.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:40 |
| - | 3  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex) near10 (etch or etching or etched)).clm. and (lcd or (liquid adj crystal)).clm.                           | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:40 |
| - | 3  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex) near10 (etch or etching or etched)).ti,ab,clm. and (lcd or (liquid adj crystal)).clm.                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:41 |
| - | 10 | (((insulating or dielectric)) near10 (groove or groovy or concave or convex) near10 (etch or etching or etched)).ti,ab,clm. and (lcd or (liquid adj crystal)).ti,ab,clm.               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:41 |
| - | 65 | (((insulating or dielectric)) near10 (groove or groovy or concave or convex) near10 (etch or etching or etched)) and (lcd or (liquid adj crystal)).ti,ab,clm.                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:41 |
| - | 4  | (((insulating or dielectric)) near10 (groove or groovy or concave or convex) near10 (etch or etching or etched) near10 hole) and (lcd or (liquid adj crystal)).ti,ab,clm.              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>13:41 |

|   |    |   |   |                     |
|---|----|---|---|---------------------|
| - | 38 | (US-4766666-\$ or US-4771638-\$ r<br>U -6159762-\$ or US-6546804-\$ r<br>US-6452654-\$ or US-6330047-\$ r<br>US-6332569-\$ or US-6316294-\$ r<br>US-6195140-\$ r US-6274440-\$ r<br>US-6194128-\$ or US-6124145-\$ or<br>US-6156585-\$ or US-6137559-\$ or<br>US-6071819-\$ or US-6015976-\$ or<br>US-6080610-\$ or US-5851919-\$ or<br>US-5759870-\$ or US-5523564-\$ or<br>US-5493177-\$ or US-5485055-\$ or<br>US-5589082-\$ or US-5238435-\$ or<br>US-4521466-\$ or US-4665413-\$).did. or<br>(US-5004704-\$ or US-4674177-\$ or<br>US-3707640-\$ or US-4262399-\$ or<br>US-6005649-\$ or US-6602743-\$ or<br>US-6057896-\$).did. or<br>(US-20020030769-\$).did. or<br>(GB-2315245-\$).did. or (US-20020030769-\$<br>or US-6194128-\$ or JP-10123539-\$).did.                                 | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT                  | 2003/09/20<br>13:49 |
| - | 6  | ((US-4766666-\$ or US-4771638-\$ or<br>US-6159762-\$ or US-6546804-\$ or<br>US-6452654-\$ or US-6330047-\$ or<br>US-6332569-\$ or US-6316294-\$ or<br>US-6195140-\$ or US-6274440-\$ or<br>US-6194128-\$ or US-6124145-\$ or<br>US-6156585-\$ or US-6137559-\$ or<br>US-6071819-\$ or US-6015976-\$ or<br>US-6080610-\$ or US-5851919-\$ or<br>US-5759870-\$ or US-5523564-\$ or<br>US-5493177-\$ or US-5485055-\$ or<br>US-5589082-\$ or US-5238435-\$ or<br>US-4521466-\$ or US-4665413-\$).did. or<br>(US-5004704-\$ or US-4674177-\$ or<br>US-3707640-\$ or US-4262399-\$ or<br>US-6005649-\$ or US-6602743-\$ or<br>US-6057896-\$).did. or<br>(US-20020030769-\$).did. or<br>(GB-2315245-\$).did. or (US-20020030769-\$<br>or US-6194128-\$ or JP-10123539-\$).did.)<br>and passivation.clm. | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/09/20<br>19:19 |